

A category

PN - DE10042982 A 20020314  
 PD - 2002-03-14  
 PR - DE20001042982 20000901  
 OPD - 2000-09-01  
 TI - Virtual-reality multimedia shooting-range system has light spots generated by laser to simulate shot or bullet  
 AB - A projector displays fixed and moving targets on a wall or in a space. A small shot or bullet is simulated by a laser pulse generator in the form of a modulated or unmodulated light spot on the target. These light spots ('laser shots') are picked up by one or more video cameras and supplied to an image store for processing in a computer. Independent claims are also included for: (a) calibration of the optical system (b) simulation of outdoor ballistics (c) production of light spots (d) production of a time reference (e) taking account of shot changes with time (f) optical marking of a hit (g) a geometrical display (h) diactic expansion of the geometric display (i) evaluation of multiple sequential shots (j) simulation of the shot sound (k) target aid (l) interactive operation of computer-assisted multimedia systems using laser targets  
 IN - BLEHER JOHANNES A (DE);DIEL HANS (DE);BLEHER J HARTMUT (DE);KNECHT GOTTFRIED (DE)  
 PA - BLEHER JOHANNES A (DE);DIEL HANS (DE);BLEHER J HARTMUT (DE);KNECHT GOTTFRIED (DE)  
 EC - F41J9/14 ; F41J5/10  
 IC - F41J5/08

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TI - Virtual-reality multimedia shooting-range system has light spots generated by laser to simulate shot or bullet  
 PR - DE20001042982 20000901  
 PN - DE10042982 A1 20020314 DW200243 F41J5/08 022pp  
 PA - (BLEH-I) BLEHER J A  
       - (BLEH-I) BLEHER J H  
       - (DIEL-I) DIEL H  
       - (KNEC-I) KNECHT G  
 IC - F41J5/08  
 IN - BLEHER J A; BLEHER J H; DIEL H; KNECHT G  
 AB - DE10042982 NOVELTY - A projector displays fixed and moving targets on a wall or in a space. A small shot or bullet is simulated by a laser pulse generator in the form of a modulated or unmodulated

light spot on the target. These light spots ('laser shots') are picked up by one or more video cameras and supplied to an image store for processing in a computer.

- DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
  - (a) calibration of the optical system
  - (b) simulation of outdoor ballistics
  - (c) production of light spots
  - (d) production of a time reference
  - (e) taking account of shot changes with time
  - (f) optical marking of a hit
  - (g) a geometrical display
  - (h) diactic expansion of the geometric display
  - (i) evaluation of multiple sequential shots
  - (j) simulation of the shot sound
  - (k) target aid
  - (l) interactive operation of computer-assisted multimedia systems using laser targets
- USE - For hunting, police or military shooting practice.
- ADVANTAGE - Realistic, with several new concepts.
- DESCRIPTION OF DRAWING(S) - The drawing shows the virtual shooting range (includes non-English language text).
- (Dwg.1/16)

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AN - 2002-395586 [43]